

Sheet 1 of 2

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
10488/15:1APPLICATION NO.  
09/886,479INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)APPLICANT  
Kenneth J. HinesFILING DATE  
June 20, 2001GROUP  
2122

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Jab	AA	6 0 5 2 5 2 7	4/18/00	Delcourt et al.	395	705	
Jab	AB	5 9 2 0 7 1 7	7/06/99	Noda	395	701	
Jab	AC	5 8 7 0 5 8 8	2/09/99	Rompaey et al.	395	500	
Jab	AD	5 8 1 9 2 7 0	10/06/98	Malone et al.	707	7	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

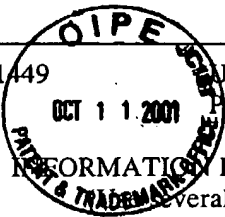
Jab	AE	✓	[Barrett et al., 1996] Barrett, D.J., Clarke, L.A., Tarr, P.L., and Wise, A.E. 1996). A framework for event-based software integration. <i>ACM Transactions on Software Engineering and Methodology</i> , 5(4):378-421.
Jab	AF	✓	[Borning, 1986] Borning, A. (1986). Classes versus prototypes in object-oriented languages. In <i>Fall Joint Computer Conference</i> .
Jab	AG	✓	[Chou, 1998] Chou, P. (1998). <i>Control Composition and Synthesis of Distributed Real-Time Embedded Systems</i> , Ph.D., thesis, University of Washington.
Jab	AH	✓	[Chou et al., 1998] Chou, P., Hines, K., Partridge, K., and Borriello, G. (1998). Control generation for embedded systems based on composition of modal processes. In <i>Proc. International Conference on Computer-Aided Design</i> .
Jab	AI	✓	[Ciancarini, 1996] Ciancarini, P. (1996). Coordination models and languages as software integrators. <i>ACM Computing Surveys</i> , 28(2):300-302.
Jab	AJ	✓	[DeLine, 1999] DeLine, R. (1999). Avoiding packaging mismatch with flexible packaging. In <i>Proc. International Conference on Software Engineering</i> , pages 97-106.
Jab	AK	✓	[Gelernter, 1986] Gelernter, D. (1986). Generative communication in Linda. <i>ACM Transactions on Programming Languages and Systems</i> , 7(1).
Jab	AL	✓	[Gelernter and Carriero, 1992] Gelernter, D. and Carriero, N. (1992). Coordination languages and their significance. <i>Communications of the ACM</i> , 35(2):97-107.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED  
OCT 16 2001  
Technology Center 2100

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)ATTY. DOCKET NO.  
10488/15:1APPLICATION NO.  
09/886,479APPLICANT  
Kenneth J. HinesFILING DATE  
June 20, 2001GROUP  
2122

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

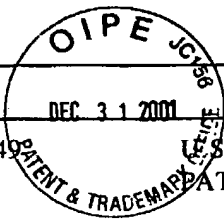
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<i>fab</i>	AM	✓ [Hines, 1996] Hines, K. (1996). A Framework for Embedded System Co-simulation with Dynamic Communication Support.
<i>fab</i>	AN	✓ [Hodges, 1999] Hodges, W. (1999). Position paper. DARPA Workshop on Model-based Methods for Embedded Software Creation, (3 pgs).
<i>fab</i>	AO	[Lieberman, 1986] Lieberman, H. (1986). Using prototypical objects to implement shared behavior in object oriented systems. In <i>OOPSLA '86 Proceedings</i> .
<i>fab</i>	AP	✓ [Selic, 1998] Selic, B. (1998). Using UML for Modeling Complex Real-Time Systems, pgs. 246-256.
<i>fab</i>	AQ	✓ [Tallman and Kain, 1998] Tallman, O. and Kain, J.B. (1998). COM versus CORBA: A decision framework. <i>Distributed Computing</i> .

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED  
OCT 16 2001  
Technology Center 2100



Sheet 1 of 1

FORM PTO-1449 (REV. 7-80) U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
10488/15:1APPLICATION NO.  
09/886,479INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)APPLICANT  
Kenneth J. Hines

RECEIVED

FILING DATE  
June 20, 2001JAN 04 2002  
GROUP  
Technology Center 210C

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BH							
	BI							
	BJ							
	BK							
	BL							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Jab	BM	Agha, Gul, "Concurrent Object-Oriented Programming," <i>Communications of the ACM</i> , Vol. 33, No. 9 (September 1990), pp. 125-141.
	BN	
	BO	
	BP	
	BQ	
	BR	
	BS	
	BT	

EXAMINER

DATE CONSIDERED

8/5/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

COPY OF PAPERS  
ORIGINALLY FILED

Sheet 1 of 1

FORM PTO-1449  
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
10488/15:1

APPLICATION NO.  
09/886,479



INFORMATION DISCLOSURE CITATION  
(Uses several sheets if necessary)

APPLICANT: Kenneth J. Hines

FILING DATE:  
June 20, 2001

GROUP: 2122

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED

AUG 09 2002

Technology Center 210

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AL					9	
	AM						
	AN						
	AO						
	AP						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

for	AR	✓	Ken Hines and Gaetano Borriello, "A Geographically Distributed Framework for Embedded System Design and Validation," <i>Design Automation Conference, 1998, Proceedings San Francisco, CA, 1998, New York, NY, IEEE, June 15, 1998, pgs. 140-145.</i>
for	AS	✓	Gopalan Suresh Raj, "A Detailed Comparison of CORBA, DCOM and Java/RMI," <i>Web Cornucopia, Online! 1998, &lt;URL: http://gsraj.tripod.com/misc/compare.html&gt;.</i>
for	AT	✓	Object Management Group, "The Common Object Request Broker: Architecture and Specification," <i>CORBA Overview, July 1995, pages 2-1-2-17, 4-1-4-6, 6-2-6-5.</i>

EXAMINER *L. A. Sullivan Jr.*

DATE CONSIDERED 8/5/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

10488/15:1

APPLICATION NO.

09/886,479

INFORMATION DISCLOSURE CITATION  
(Uses several sheets if necessary)

APPLICANT

Kenneth J. Hines

FILING DATE

June 20, 2001

GROUP

2122

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>fab</i>	AA	5	4	2	8	7	8	2		6/27/95	White	395	650	
<i>fab</i>	AB	5	6	4	2	4	7	8		6/24/97	Chen, et al.	395	183.21	
<i>fab</i>	AC	5	7	2	4	5	0	8		3/3/98	Harple, Jr. et al.	395	200.04	
	AD													
	AE													
	AF													
	AG													
	AH													
	AI													
	AJ													
	AK													

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
														YES	NO
<i>fab</i>	AL	✓	EP	0	881	568	A2			29.05.1998	Europe	G06F	9/46		
<i>fab</i>	AM	✓	EP	0	822	484	A2			04.02.1998	Europe	G06F	9/44		
	AN														
	AO														
	AP														

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<i>fab</i>	AR	✓	Ken Hines and Gaetano Borriello, "Debugging Distributed Implementations of Modal Process Systems".												
<i>fab</i>	AS	✓	Pai Chou, Ken Hines, Kurt Partridge and Gaetano Borriello, "Control Generation for Embedded Systems Based on Composition of Modal Processes," pp. 46-53.												
<i>fab</i>	AT	✓	Pai H. Chou and Gaetano Borriello, "Synthesis and Optimization of Coordination Controllers for Distributed Embedded Systems," pp. 410-415.												

EXAMINER

*Sam A. Bullock Jr.*

DATE CONSIDERED

8-5004

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

APPLICATION NO.

10488/15:1

09/886,479

APPLICANT

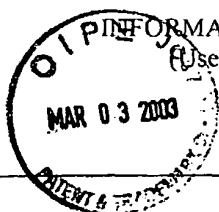
Kenneth J. Hines

FILING DATE

June 20, 2001

GROUP

2122



Uses several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<i>fab</i>	AR	Anderson, Richard J., et al., "Model Checking Large Software Specifications," Department of Computer Science and Engineering, University of Washington (1996 ACM 0-89791-797-9/96/0010), pp. 156-166.
<i>fab</i>	AS	Christopher B. Borchert, "Organization and Management of Distributed Execution Event Histories For Real-Time Debugging," <i>IEEE</i> , pp. 343-345.
<i>fab</i>	AT	Mariano P. Consens, Masum Z. Hasan, Alberto O. Mendelzon, "Visualizing and Querying Distributed Event Traces with Hyt," <i>Computer Systems Research Institute, University of Toronto</i> , June 1994, pp. 123-141.

EXAMINER

*fab*

DATE CONSIDERED

8-5-01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

10488/15:1

APPLICATION NO.

09/886,479

## INFORMATION DISCLOSURE CITATION

(Uses several sheets if necessary)

APPLICANT

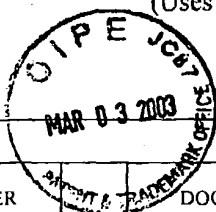
Kenneth J. Hines

FILING DATE

June 20, 2001

GROUP

2122



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	AL						
	AM						
	AN						
	AO						
	AP						

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<i>fab</i>	AR	Wentong Cai, Wendy J. Milne and Stephen J. Turner, "Graphical Views of the Behavior of Parallel Programs," <i>Journal of Parallel and Distributed Computing</i> , June 18, 1993, No. 2, Orlando, FL, USA, pp. 223-230.
<i>fab</i>	AS	Jaffe, Matthew S., et al., "Software Requirements Analysis for Real-Time Process-Control Systems," 8198 IEEE Transactions on Software Engineering, 17 (1991) March, No. 3, New York, U.S., pp. 241-257.
<i>fab</i>	AT	Thomas Kunz, David J. Taylor, and James P. Black, "Poet: Target-System-Independent Visualizations of Complex Distributed Executions," <i>IEEE</i> , 1997, pp. 452-461.

EXAMINER

*L. A. Bell*

DATE CONSIDERED

8-5-04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

10488/15:1

APPLICATION NO.

09/886,479

## INFORMATION DISCLOSURE CITATION

(Uses several sheets if necessary)

APPLICANT

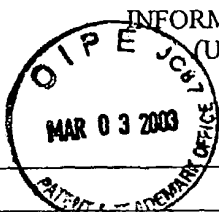
Kenneth J. Hines

FILING DATE

June 20, 2001

GROUP

2122



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Jas</i>	AR	✓	Daug Kimelman and Dror Zemik, "On-the-Fly Topological Sort - A Basis for Interactive Debugging and Live Visualization of Parallel Programs," 8398 ACM Sigplan Notices, December 28, 1993, No. 12, New York, US, pp. 12-20.
<i>Jas</i>	AS	✓	Mikhail Auguston, "Building Program Behavior Models," Dept. of Computer Science, New Mexico State University, pp. 19-26.
<i>Jas</i>	AT	✓	Stephen Edwards, Luciano Lavagno, Edward A. Lee, et al., "Design of Embedded Systems: Formal Models, Validation, and Synthesis," Proceedings of the IEEE, Vol. 85, No. 3, March 1997, pp. 366-389.

EXAMINER

*L. A. Bellini Jr.*

DATE CONSIDERED

8-5-01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



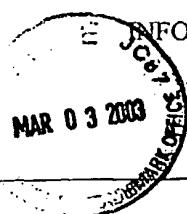
FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

APPLICATION NO.

10488/15:1

09/886,479

INFORMATION DISCLOSURE CITATION  
(Uses several sheets if necessary)

APPLICANT

Kenneth J. Hines

FILING DATE

June 20, 2001

GROUP

2122

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Sub</i>	AR	Pai Chou, Ross Ortega, Ken Hines, et al., "IPChinook: An Integrated IP-based Design Framework for Distributed Embedded Systems," pp. 44-49.
	AS	
	AT	

EXAMINER

*R. A. Hines Jr.*

DATE CONSIDERED 8-5-04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.